JVC

SERVICE MANUAL

MODEL 9201LS,LSB

FM-MW-LW
3-BAND RADIO
CASSETTE RECORDER

No. 1321
July 1976

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Specifications

DIMENSIONS : 21.3cm(H) x 31.5cm(W) x 9.2cm(D)
8-3/8" x 12-3/8" x 3-5/8"

WEIGHT : Approx. 2.9kg (with batteries)
6.4 lbs.

TUNER SECTION

Frequency Ranges	:	FM	88~ 108MHz
		MW	540~1600kHz
		LW	150~ 350kHz
Intermediate Frequencies	:	FM	10.7MHz
		MW/LW	455kHz
Antennas	:	FM	Rod Antenna
		MW/LW	Ferrite Core Antenna

AMPLIFIER SECTION

Speaker	:	12cm(5") 8Ω
Power Output	:	Max. 2W

RECORDER SECTION

Tape Speed	:	4.75cm/s (1-7/8 ips)
Track System	:	2-track monaural
Recording System	:	AC Bias
Erasing System	:	DC Erasing
Fast Forward Time	:	Within 100 sec.(C-60 cassette)
Rewinding Time	:	Within 100 sec.(C-60 cassette)
Wow & Flutter	:	0.3% (WRMS)

POWER SOURCE

DC	:	6V 4 D-cells or equivalent
AC	:	110/220/240V 50/60Hz (LS)
		240V 50/60Hz (LSB)

Removal of Chassis

Rear Cabinet (Refer to Fig. 1)

1. Remove 5 screws (1): SDSP3025RS and (2)~(5): SBSB3020R.
2. Disconnect 3 connecting wires from the rod antenna (white), positive terminal of batteries (red) and negative terminal of batteries (black).

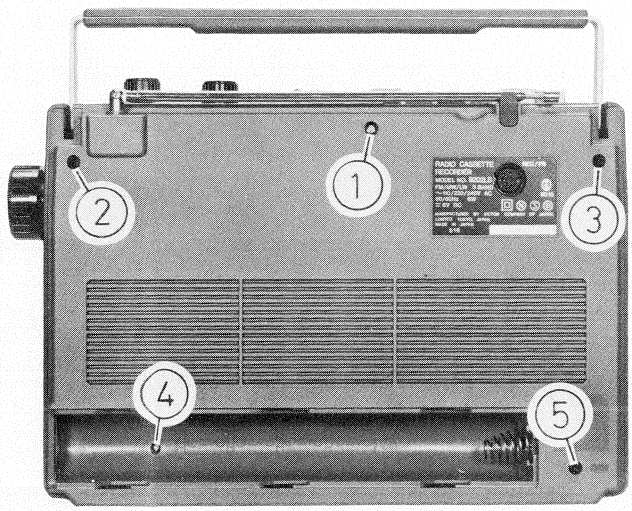


Fig. 1

Chassis Assembly (Refer to Fig. 2)

1. Take off the TONE, VOLUME and tuning knobs.
2. Remove 5 screws (6) & (7): SBSB3014Z and (8)~(10): SBSB3012Z.

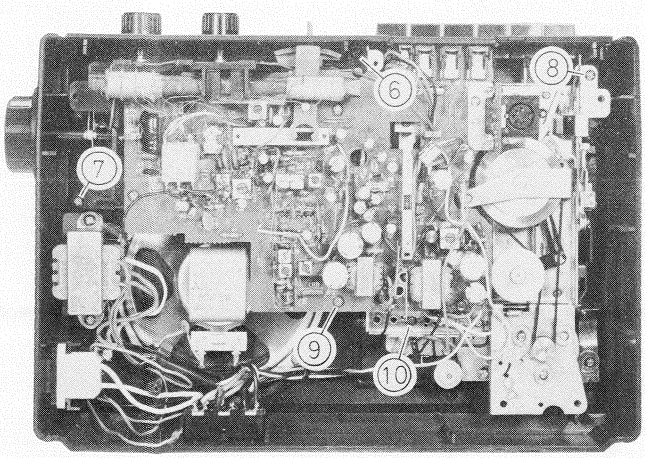


Fig. 2

Circuit Board (Refer to Fig. 3)

1. Remove 4 screws (11)~(14): SPSP3006ZS.
2. The circuit board can be separated from the cassette mechanism.

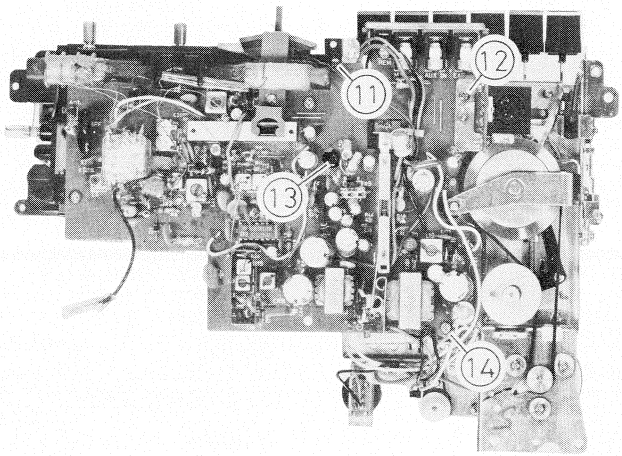


Fig. 3

How to Fit Dial Cord

1. Fit cord in accordance with the arrow mark while setting the variable capacitor on maximum.
2. Cord length: 0.6ϕ x 630mm.

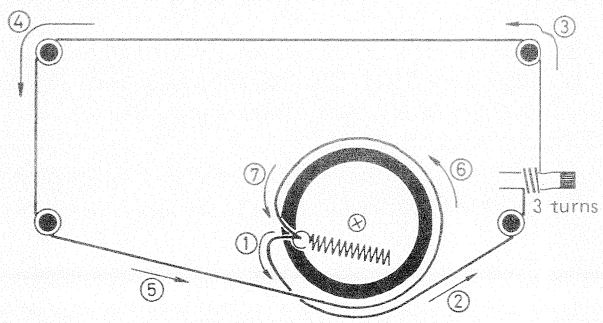


Fig. 4

Tuner Alignment

Power Source: DC 6V
Volume Control: Maximum
Output Measuring: Speaker terminal (Impedance = 8Ω)

AM IF & RF Alignment

Input (SSG): Modulation 400Hz, Modulated to 30%

Step	Frequency Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	MW(IF)	455kHz	Loop Antenna	L13,14,17	Minimum
2		Repeat the Step 1, and adjust for no further improvement.			
3	MW	520kHz	Loop Antenna	L9	Maximum
4		1650kHz		C9	Minimum
5		Repeat the Steps 3 & 4.			
6		600kHz	Loop Antenna	L7	600kHz Signal
7		1400kHz		C7	1400kHz Signal
8		Repeat the Steps 6 & 7, and adjust for no further improvement.			
9	LW	145kHz	Loop Antenna	L10	Maximum
10		360kHz		C10	Minimum
11		Repeat the Steps 9 & 10.			
12		160kHz	Loop Antenna	L8	160kHz Signal
13		350kHz		C8	350kHz Signal
14		Repeat the Steps 12 & 13, and adjust for no further improvement.			

Note: Keep the output level always on about 50mW (0.63V/8Ω) when alignment.

FM IF & Discriminator Alignment

1. Set the VOLUME to minimum and tune in the maximum frequency where no signal comes in.
2. Connect the clip of the TV. sweep generator's IF/VF OUTPUT lead to the test point TP1 and the other clip to the earth (Refer to Fig. 8).
3. Connect the scope terminal of the sweep generator to H. INPUT of oscilloscope.
4. Connect the V. INPUT terminal to the test point TP2(Hot) & TP3(Earth) (Refer to Fig. 8).
5. IF Alignment
   a. Align the L16 so that the wave mode will be appeared on either side of the flyback line. (Refer to Figs. 5 & 6).
   b. Align the L11,12,15 so that the maximum sensitivity and symmetrical wave mode will be obtained setting the marker 10.7MHz on the peak. (Refer to Fig. 6).
6. Discriminator Alignment
   Align the L16 so that the symmetrical "S" curve will be obtained setting the marker 10.7MHz on the center of the "S" curve. (Refer to Fig. 7).

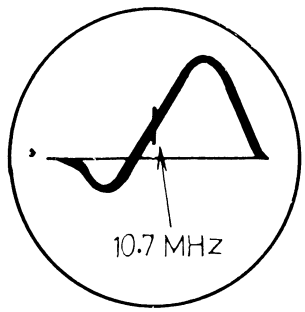


Fig. 5

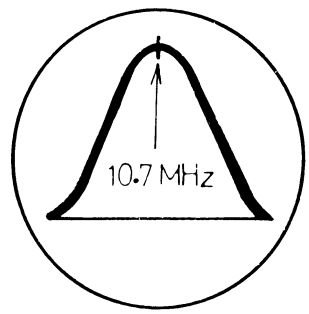


Fig. 6

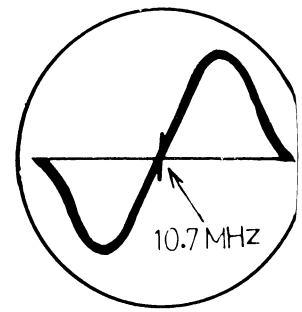


Fig. 7

FM RF Alignment

Input (SSG): Use 75Ω terminal modulation 400Hz modulated to 22.5kHz deviation.

Step	Frequency Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	FM	87.5MHz	Rod Antenna	L6	Maximum
2		109MHz	Terminal	C6	Minimum
3		Repeat the Steps 1 & 2.			
4		90MHz	Rod Antenna	L4	90MHz Signal
5		106MHz	Terminal	C5	106MHz Signal
6		Repeat the Steps 4 & 5, and adjust for no further improvement.			

Note: Keep the output level always on about 50mW (0.63V/8Ω) when alignment.

Parts Arrangement for Alignment

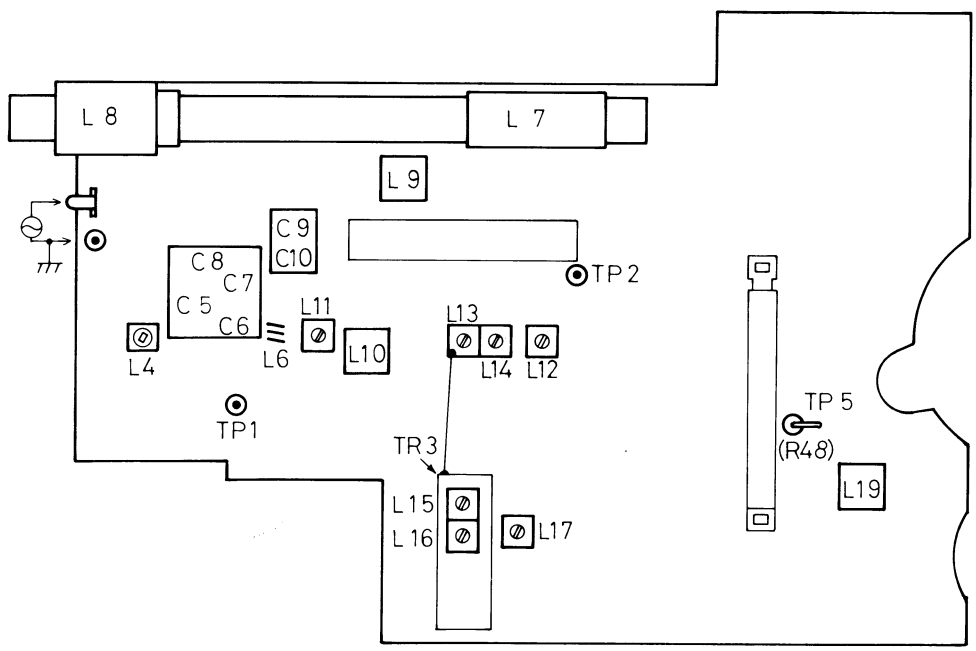


Fig. 8

Adjusting Recording Bias

1. Connect the V.T.V.M. to the test point TP5 and the earth point (Refer to Fig. 8).
2. Set the recorder in the recording mode.
3. Adjust the oscillator coil L19 so that the V.T.V.M. indicates the minimum output.

Final Packing Ass'y

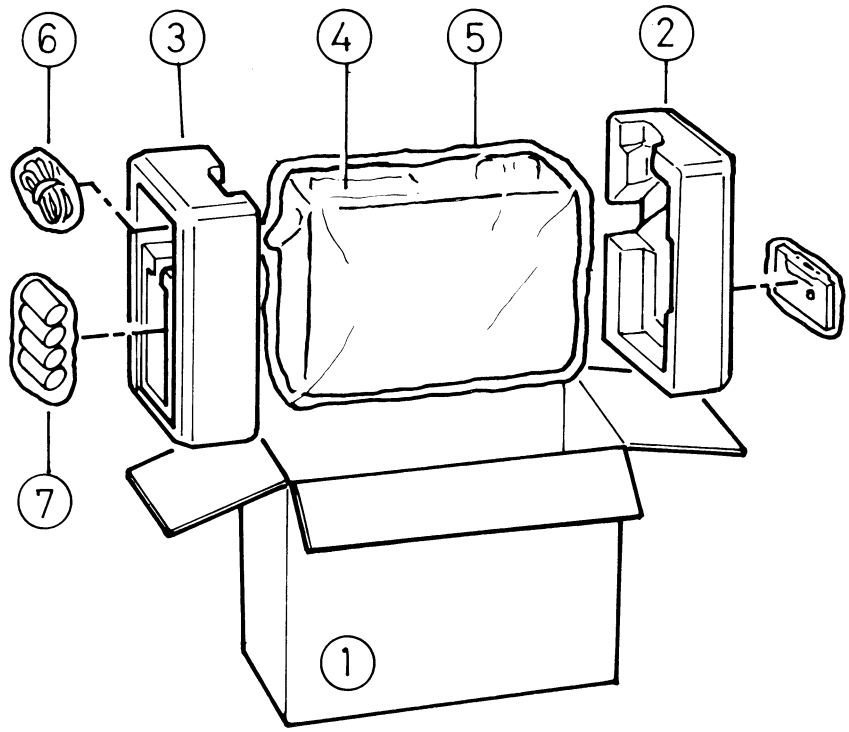


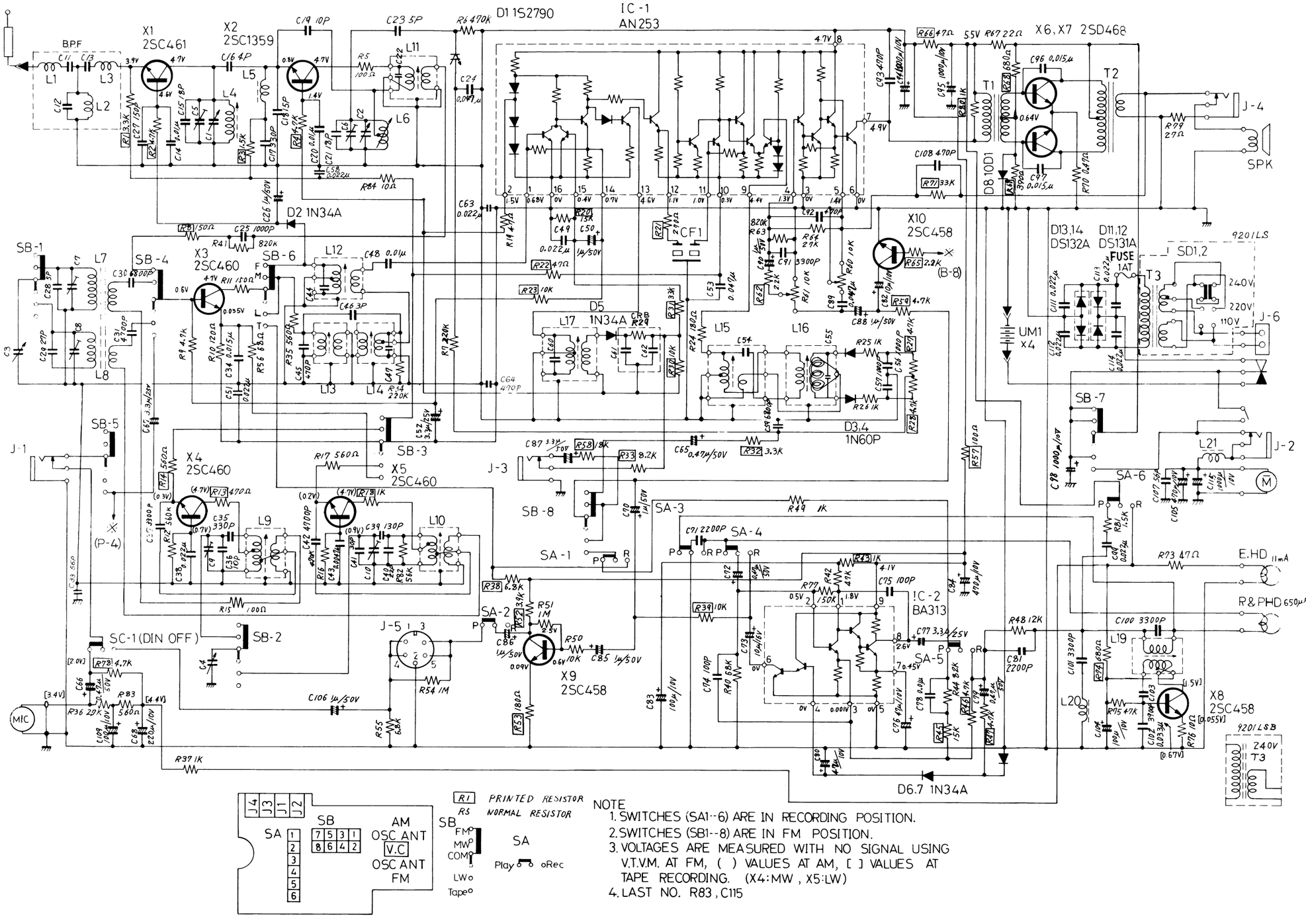
Fig. 9

Ref. No.	Parts No.	Parts Name	Description
1	VP3240-293	Carton Box	9201LS
	" -311	"	9201LSB
2	VP1561-001	Side Cushion	Right
3	VP1562-001	"	Left
4	VHPJ079-027	Wrapping Paper	
5	QPGA045-04005	Cabinet Cover	
6	QPGA012-01505	Parts Sack	for Power Cord
7	" -02505	"	for Batteries

Accessories

Parts No.	Parts Name	Description
QME1308-004	Magnetic Earphone	
V04056-1	Shorting Plug	
VGT12S2-J01	Cassette Tape	
V43338-01	Head Cleaner	
QMP3950-183	Power Cord with Plug	9201LS
QMP9017-006	Power Cord	9201LSB

Schematic Diagram of 9201LS,LSB



NOTE
1. SWITCHES (SA1--6) ARE IN RECORDING POSITION.
2. SWITCHES (SB1--8) ARE IN FM POSITION.
3. VOLTAGES ARE MEASURED WITH NO SIGNAL USING V.T.V.M. AT FM, ( ) VALUES AT AM, [ ] VALUES AT TAPE RECORDING. (X4:MW , X5:LW)
4. LAST NO. R83 , C115

Fig. 10

Wiring Connection

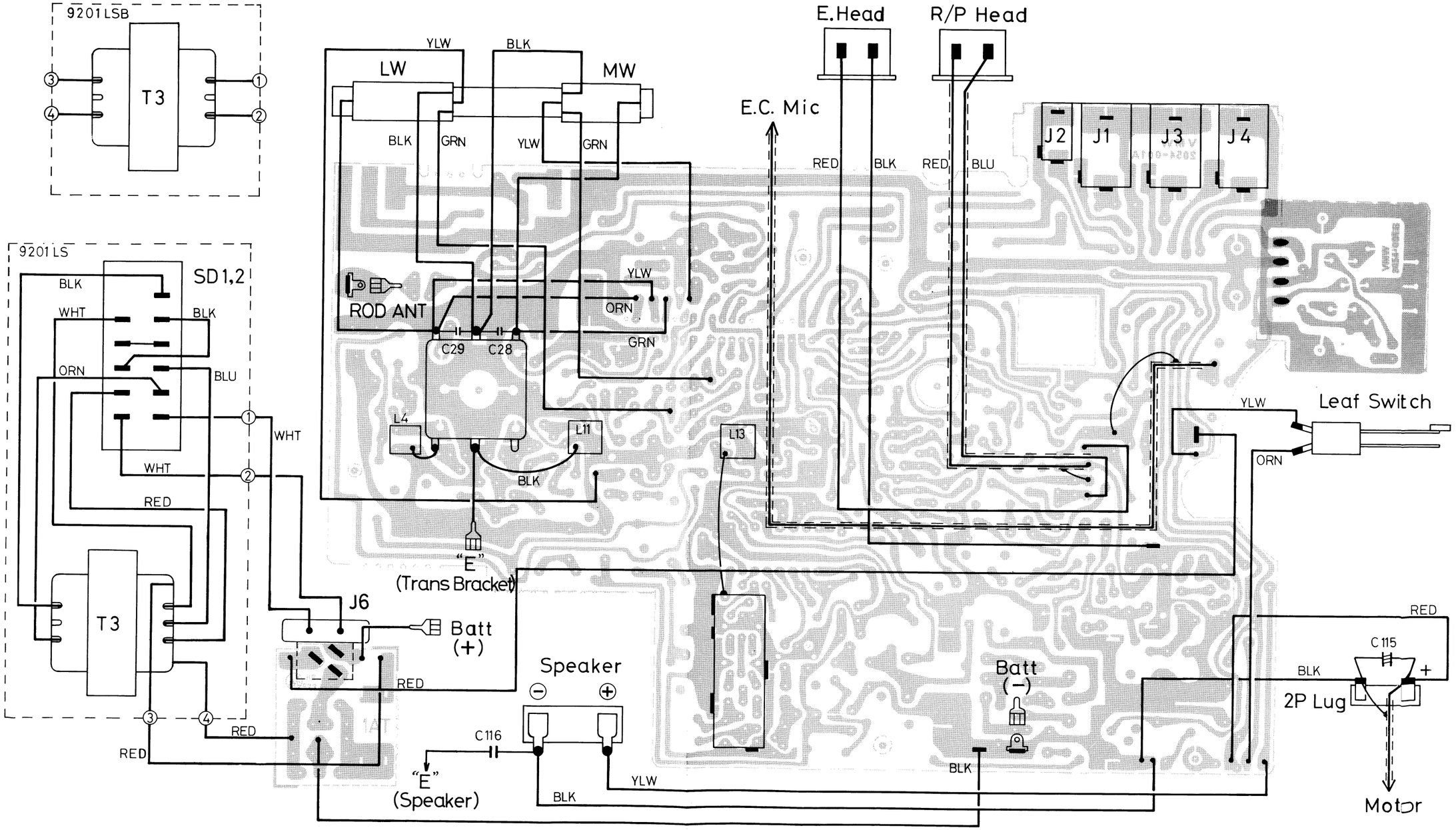


Fig. 11

Main Parts Location

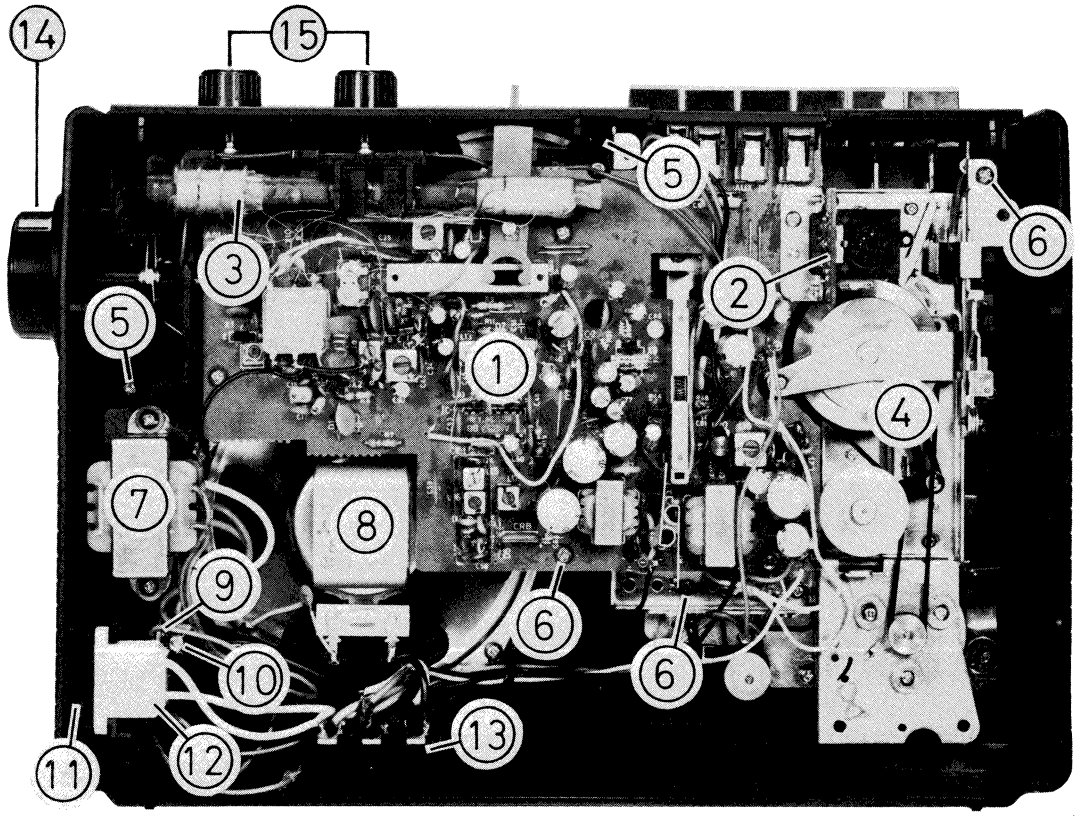


Fig. 12

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	————	Circuit Board Ass'y	Main	1
2	————	〃	DIN	1
3	QVB014B-201	Bar Antenna Ass'y	L7,8	1
4	————	Cassette Mechanism		1
5	SBSB3014Z	Screw		2
6	SBSB3012Z	〃		3
7	VTP41N2-60A	Power Transformer	T3 (9201LS)	1
	VTP41T2-60C	〃	〃 (9201LSB)	1
8	EAS12P69SE	Speaker	12cm(5") 8Ω	1
9	————	Circuit Board Ass'y	Power Supply	1
10	QMF51A2-1R0	Fuse	1AT	1
11	QMC0263-001	AC Socket Ass'y	J6	1
12	V44399-00C	Cap	Insulation Cap for J6	1
13	QSS2325-005	Slide Switch	SD1,2 (9201LS)	1
14	V44769-001	Knob	Tuning	1
15	VXK0020-3001	〃	TONE, VOLUME	2

Note: The circuit board assemblies & cassette mechanism in this model will not be available as spare parts.

Exploded View of Cabinet

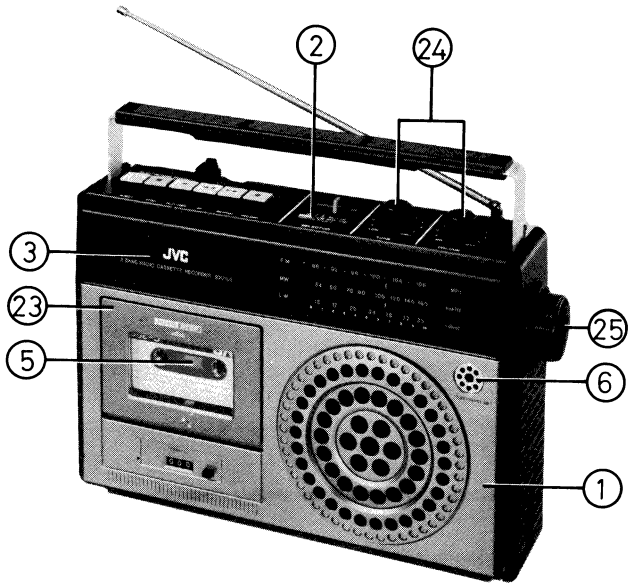


Fig. 13

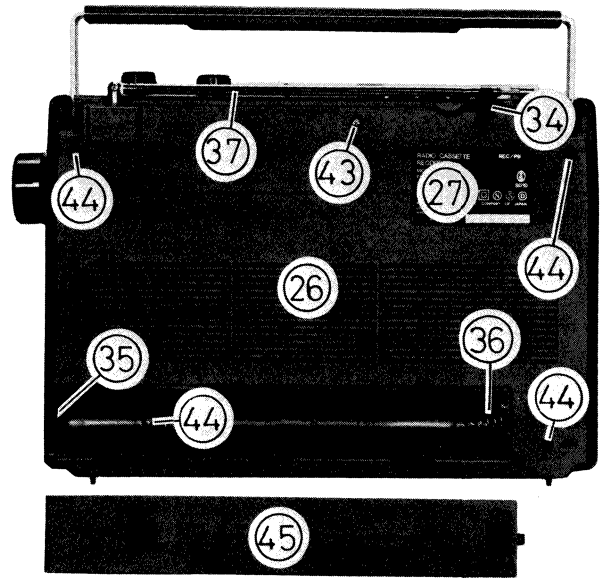


Fig. 15

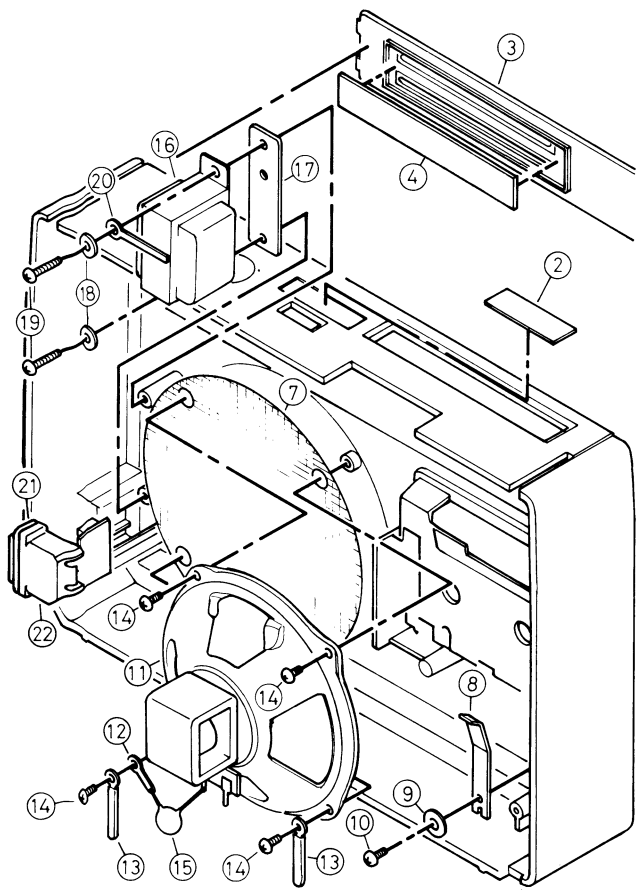


Fig. 14

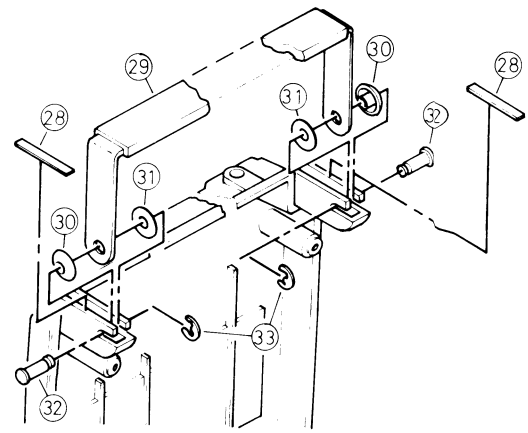


Fig. 16

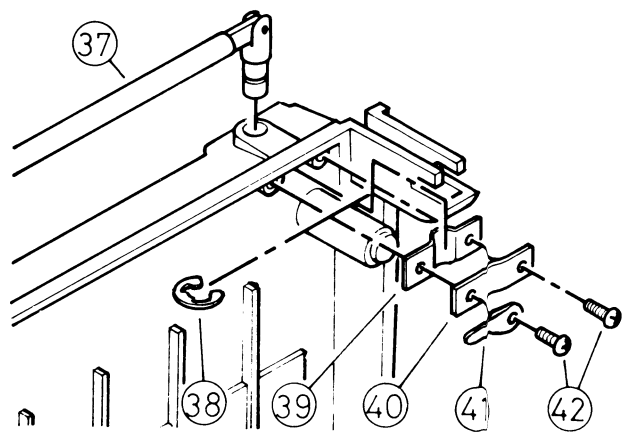


Fig. 17

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1~7	**ZC9201LS-CBF**	**Front Cabinet Ass'y**	**(9201LS)**	**1**
	ZC9201LSB-CBF	〃	**(9201LSB)**	**1**
1	V10316-002	Front Cabinet		1
2	V44761-003	Band Plate	Glued	1
3	V31137-001	Dial Scale	〃 (9201LS)	1
	〃 -002	〃	〃 (9201LSB)	1
4	VYSS101-002	Spacer	〃	1
5	V42616-2	Plate	〃	1
6	V44762-001	Microphone Plate	〃	1
7	V44765-001	Net	〃	1
8	V44772-001	Door Spring		1
9	Q03091-105	Washer		1
10	SBSB3008Z	Screw		1
11	EAS12P69SE	Speaker	12cm(5") 8Ω	1
12	50242-4	Terminal Lug		1
13	V42603-003	Wire Clamp		2
14	SBSB3008Z	Screw		4
15	QCS11HK-101	Ceramic Capacitor	C116 (100pF, 50V)	1
16	VTP41N2-60A	Power Transformer	T3 (9201LS)	1
	VTP41T2-60C	〃	〃 (9201LSB)	1
17	V44156-001	Spacer		1
18	Q03095-206	Washer		2
19	SBSB3016Z	Screw		2
20	V42603-002	Wire Clamp		1
21	QMC0263-001	AC Socket Ass'y	J6	1
22	V44399-00C	Cap	Insulation Cap for J6	1
23	V44773-00A	Cassette Door Ass'y		1
24	VXK0020-3001	Knob	TONE, VOLUME	2
25	V44769-001	〃	Tuning	1
26~33	**ZC9201LS-CBR**	**Rear Cabinet Ass'y**	**(9201LS)**	**1**
	ZC9201LSB-CBR	〃	**(9201LSB)**	**1**
26	V10317-001	Rear Cabinet		1
27	VYN5030-006D	Name Plate	Glued (9201LS)	1
	〃 -014D	〃	〃 (9201LSB)	1
28	VYSA1R8-029	Spacer	〃	2
29	V44825-00A	Handle Ass'y		1
30	V44314-003	Spacer		2
31	VYSS2R5-002	〃		2
32	V43202-007	Stud		2
33	V43317-001	E-Ring		2
34	V44618-002	Antenna Catcher	Force-fitted	1
35	V44767-001	Battery Contact	〃	1
36	53738-1	Spring	〃	1
37	QZR4215-001U	Rod Antenna		1
38	REE6000	E-Ring	Force-fitted	1
39	V44195-002	Rod Antenna Holder		1
40	V44196-003	〃		1
41	V41208-003	Tab		1
42	SBSB3008Z	Screw		2
43	SDSP3025RS	〃		1
44	SBSB3020RS	〃		4
45	**ZC9201LS-BCA**	**Battery Cover Ass'y**	**(9201LS,LSB)**	**1**

Exploded View of Chassis Ass'y

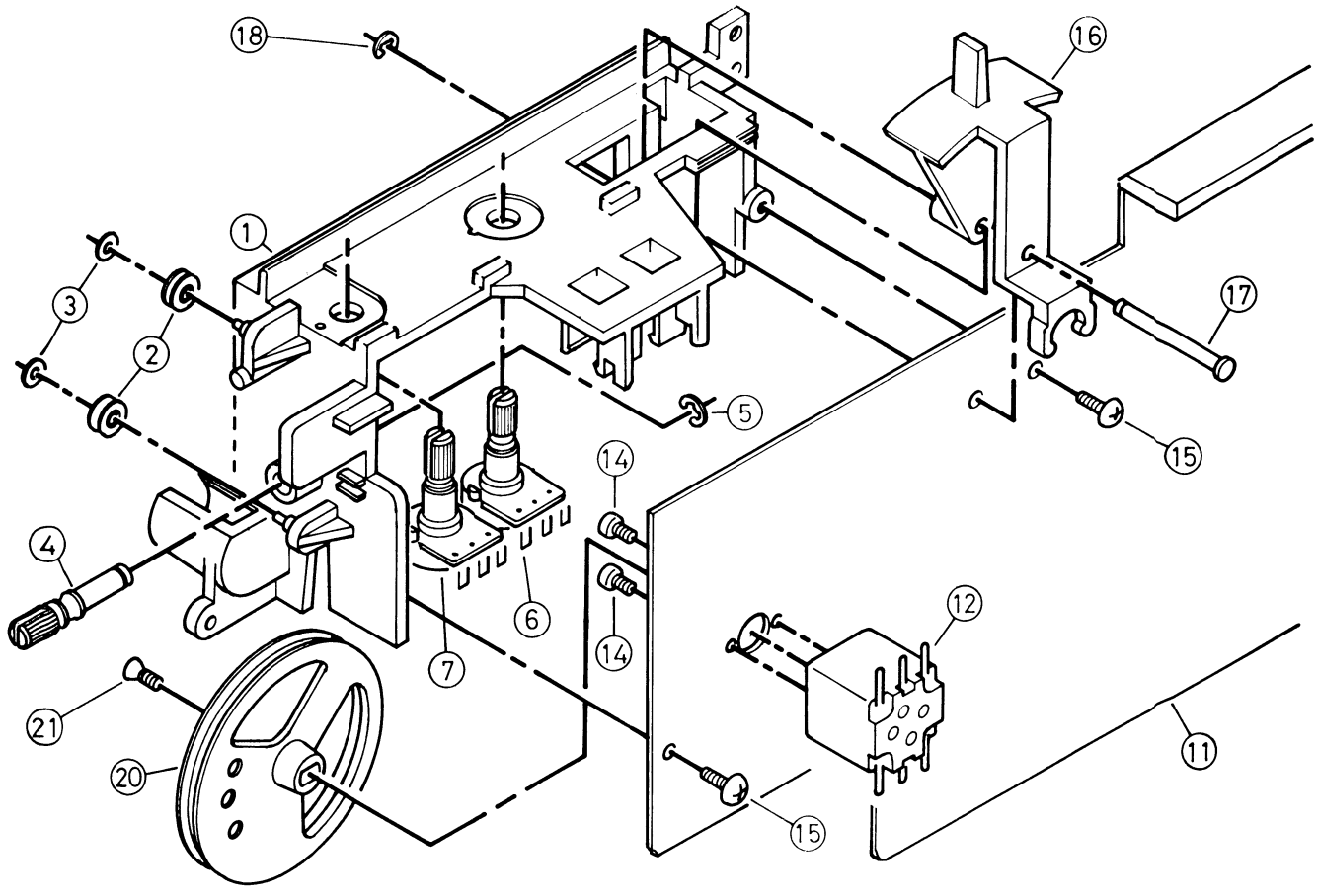


Fig. 18

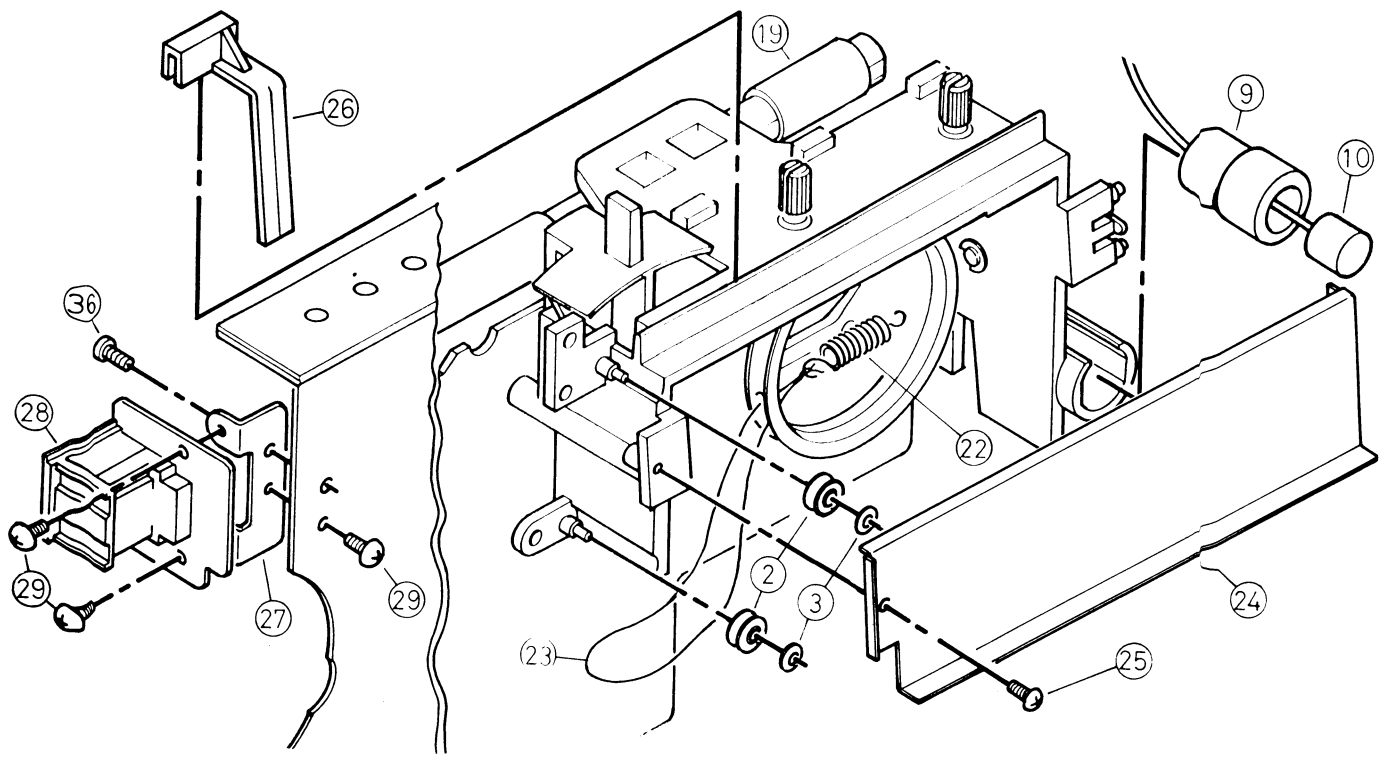


Fig. 19

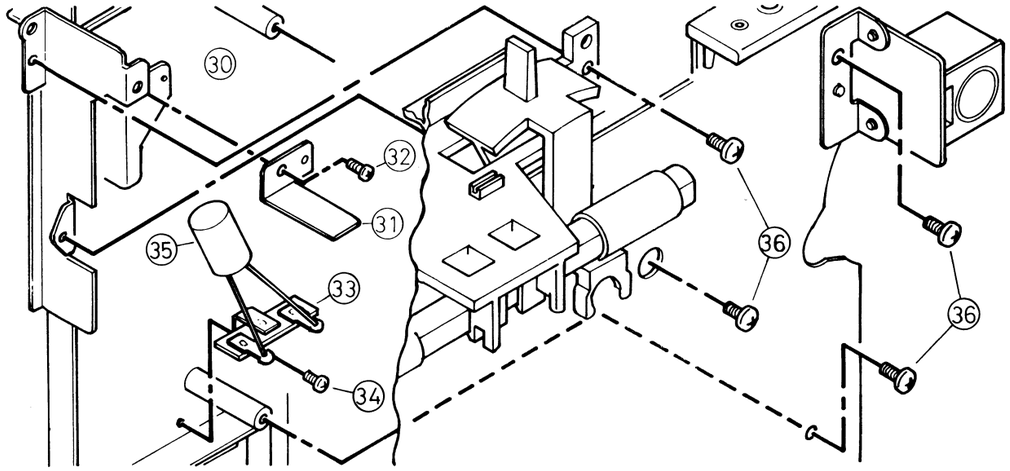


Fig. 20

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	V20676-001	Chassis		1
2	V40409-3	Roller		4
3	V42562-1	Special Washer		4
4	V41336-019	Tuning Shaft		1
5	REE3000	E-Ring		1
6	QVF1A2A-014	Variable Resistor	R60 (10kΩ A-Curve) TONE	1
7	〃	〃	R61 (〃) VOLUME	1
8	Blank No			
9	V44826-001	Microphone Holder		1
10	VMME62N-006	Condenser Microphone		1
11	————	Circuit Board Ass'y		1
12	QAP1224-503	Variable Capacitor	C1~8	1
13	Blank No.			
14	SPSP2604Z	Screw		2
15	SBSB3008Z	〃		2
16	V31096-001	Toggle Lever		1
17	V43202-008	Stud		1
18	REE2000	E-Ring		1
19	VQB014B-201	Bar Antenna Ass'y	L7,8	1
20	QZD1108-002	Dial Drum		1
21	SSSP2608Z	Screw		1
22	50153-3	Spring		1
23	VHR2TT9-06A	Dial Cord		1
24	V31097-001	Back Panel		1
25	SBSB2606Z	Screw		1
26	V44766-002	Needle		1
27	V44839-001	DIN Bracket		1
28	————	Circuit Board Ass'y	DIN	1
29	SBSB3006Z	Screw		3
30	————	Cassette Mechanism		1
31	V44770-001	Record Spring		1
32	LPSP2605Z	Screw		1
33	QML3030-033	2-pin Lug		1
34	SPSP2604Z	Screw		1
35	QEW41AA-108	Electrolytic Capacitor	C115 (1000μF,10V)	1
36	SPSP3006ZS	Screw		4

Power Supply Circuit Board Ass'y

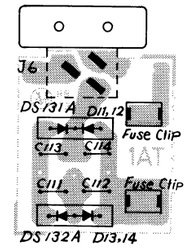


Fig. 21

Diodes

Ref. No.	Parts No.	Parts Name	Description
D11,12 D13,14	DS131A DS132A	Silicon (SANYO) 〃 (〃)	Rectifier Stack 〃

Capacitors

Ref. No.	Parts No.	Parts Name	Description
C111~114	QCF11EZ-223	Ceramic	0.022μF 25V

Others

Ref. No.	Parts No.	Parts Name	Description
Fuse Clip J6 Fuse	A44594-001 QMC0263-001 QMF51A2-1R0	Fuse Clip AC Socket Ass'y Fuse	 1AT

DIN Circuit Board Ass'y

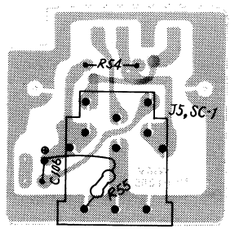


Fig. 22

Ref. No.	Parts No.	Parts Name	Description
R54	QRD143K-105	Carbon Resistor	1MΩ ¼W
R55	〃 -682	〃	6.8kΩ 〃
C106	QEW41HA-105	Electrolytic Capacitor	1μF 50V
J5, SC-1	QMC9014-004	DIN Socket Ass'y	

Exploded View of Cassette Mechanism

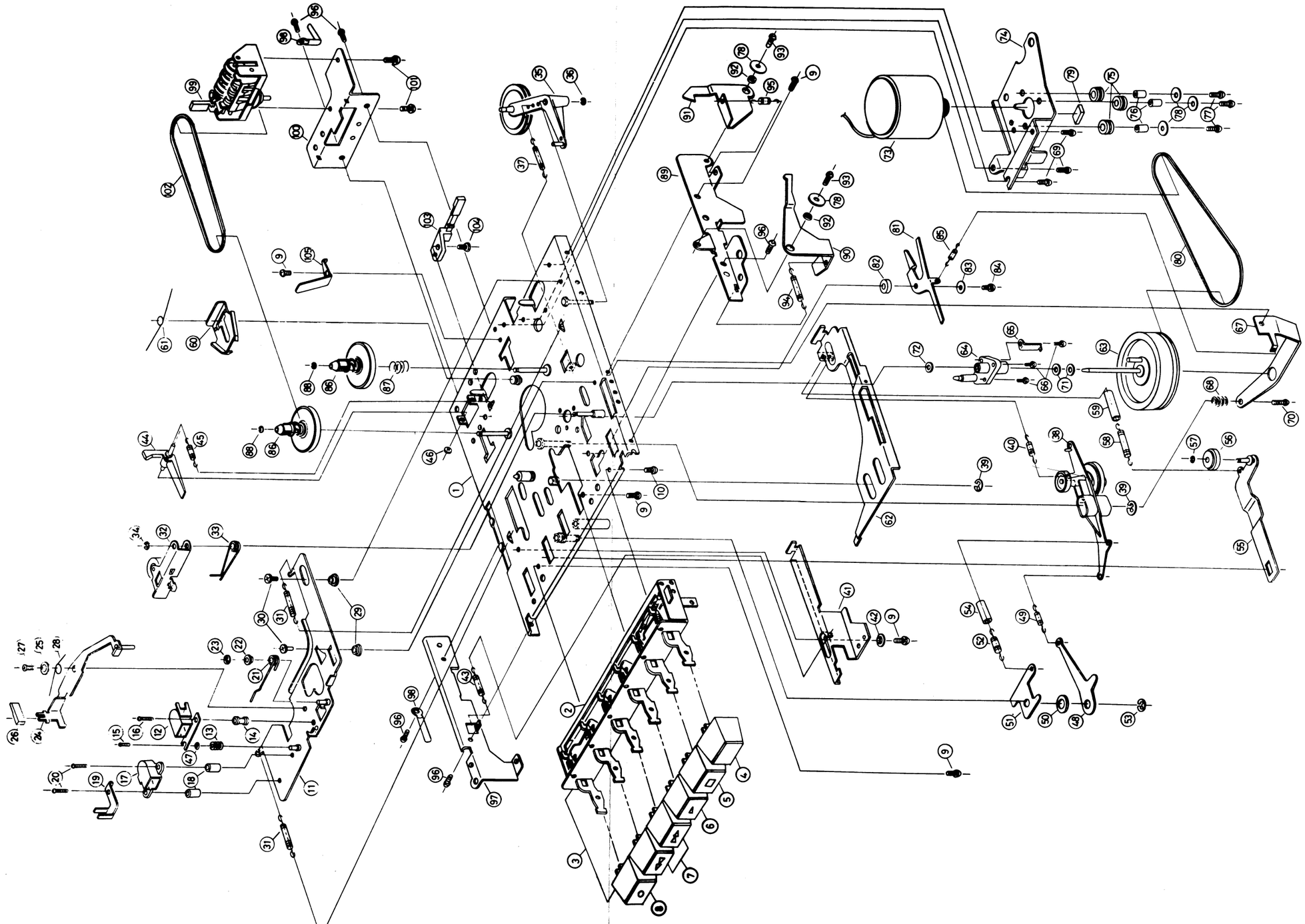


Fig. 23

List of Cassette Mechanism

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	9090181ZT	Chassis Ass'y		1
2	9090291ZT	Push Button Switch Ass'y		1
3	9090271ZT	Push Button Composite Ass'y		1
4	V31046-001	Push Button	EJECT	1
5	" -002	"	STOP	1
6	" -003	"	PLAY	1
7	" -004	"	FF, REWIND	2
8	" -005	"	RECORD	1
9	LPSP2605Z	Ass'y Screw		5
10	SPSP2606Z	Screw		1
11	5720481ZT	Head Panel Ass'y		1
12	V03078-037	R/P Head		1
13	480408T	Spring		1
14	4080402T	R/P Head Stud		1
15	SPSX2006Z	Screw		1
16	SPSP2011Z	"		1
17	V03078-041	Erase Head		1
18	4630402T	Collar		2
19	4080430T	Wire Clamp		1
20	SPSP2012Z	Screw		2
21	4080405T	RQ. Spring		1
22	4080412T	Collar		1
23	REE2500	E-Ring		1
24	4080482ZT	Stop Detect Lever Ass'y		1
25	4080414T	Collar		1
26	4531301T	Stop Detect Contact		1
27	SSSP2005Z	Screw		1
28	4080415T	Spring		1
29	4080411T	Collar		2
30	SDSP2604Z	Screw		2
31	4080413T	Spring		2
32	7150781ZT	Pinch Roller Ass'y		1
33	4080503T	Spring		1
34	REE1900	E-Ring		1
35	4080791ZT	Clutch Ass'y		1
36	REE2000	E-Ring		1
37	2380406T	Spring		1
38	40808ZT	FF. Idler Arm Ass'y		1
39	REE4000	E-Ring		2
40	581316T	Spring		1
41	8870301T	Record Slide Lever		1
42	090302T	Collar		1
43	1011105T	Spring		1
44	2680503T	Record Safety Lever		1
45	1320303T	Spring		1
46	NSS2000F	Push Nut		1
47	WNS2000N	Washer		1
48	4080804T	FF. Function Plate		1
49	4080810T	Spring		1
50	110505T	Special Washer		1
51	4080805T	Rewind Function Plate		1
52	4080812T	Spring		1
53	REE3200	E-Ring		1
54	———	Tube	ϕ4 x ϕ3 x L8	1
55	4081081ZT	Rewind Idler Arm Ass'y		1
56	2110902T	Rewind Idler		1
57	REE1500	E-Ring		1
58	020905BT	Spring		1

Ref. No.	Parts No.	Parts Name	Description	Q'ty
59	———	Tube	ϕ4 x ϕ3 x L24	1
60	4080901T	Brake Arm		1
61	4080902T	Spring		1
62	4080903T	Brake Function Plate		1
63	580903ZT	Flywheel Ass'y		1
64	3690701T	FL. Block		1
65	4460701T	Earth Plate		1
66	LPSP2005Z	Ass'y Screw		3
67	4081195ZT	Flywheel Bracket Ass'y		1
68	060405T	Spring		1
69	LPSP2604Z	Ass'y Screw		3
70	SPSP2610Z	Screw		1
71	031504T	Special Washer		2
72	031503T	"		1
73	NF623R01	Motor		1
74	5841201T	Motor Bracket		1
75	T45687-001	Rubber Cushion		3
76	4081211T	Motor Collar		3
77	SPSP2607Z	Screw		3
78	031501T	Washer	ϕ2.6 x ϕ10 x t0.8	5
79	3130702T	Mat		1
80	4081203T	Main Belt		1
81	4081405T	Auto Stop Lever		1
82	4081402T	Collar		1
83	WNS2600Z	Washer		1
84	LPSP2607Z	Ass'y Screw		1
85	020708T	Spring		1
86	5720695ZT	Reel Disk Ass'y		2
87	050502T	Spring		1
88	REE1200	E-Ring		2
89	8871301T	Eject Bracket		1
90	9091302T	Eject Lever		1
91	6671303T	Lock Lever		1
92	321302T	Collar		2
93	LPSP2606Z	Ass'y Screw		2
94	101203T	Spring		1
95	150102T	"		1
96	SPSD2604Z	TH. TAP Screw		5
97	8871601T	Side Bracket		1
98	4660901T	Wire Clamp		2
99	V30712-007	Tape Counter		1
100	9091701T	Counter Bracket		1
101	SPSP3005ZS	Screw		2
102	1741302T	Counter Belt		1
103	6301401T	Leaf Switch		1
104	SDSP2604Z	Screw		1
105	6670105T	Pack Spring		1

Circuit Board Ass'y

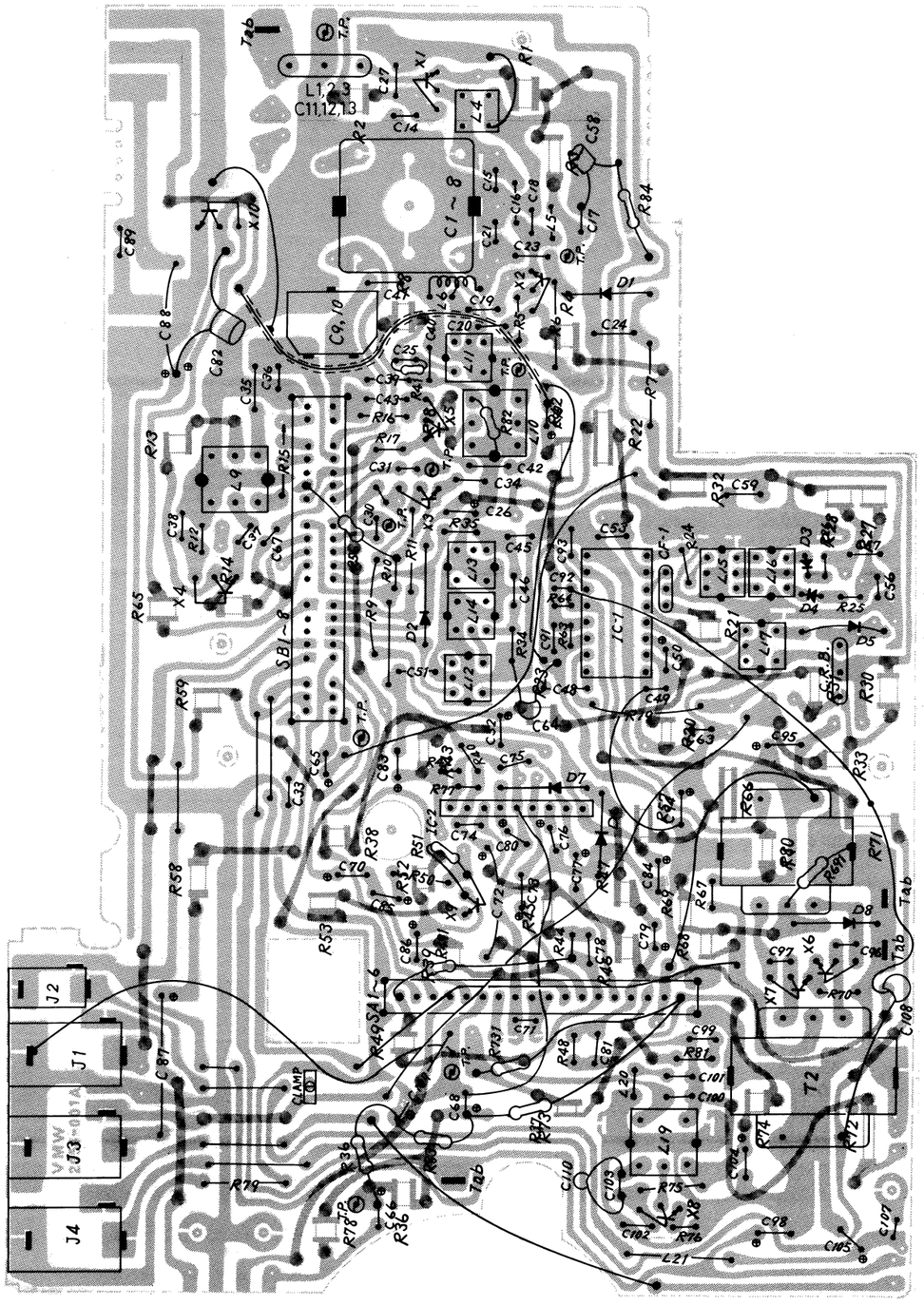


Fig. 24

Transistors

Ref. No.	Parts No.	Description	Pc	fT
X1	2SC461(C)	Silicon (HITACHI)	200mW	230MHz
X2	2SC1359(B,C)	" (MATSUSHITA)	250mW	300MHz
X3	2SC460G(C)	" (HITACHI)	200mW	230MHz
X4,5	2SC460(B)	" (")	"	"
X6,7	2SD468(C)	" (")	900mW	190MHz
X8,9,10	2SC458(D)	" (")	200mW	230MHz

ICs & Diodes

Ref. No.	Parts No.	Parts Name	Description
IC-1	AN253(BB)	Integrated Circuit	MATSUSHITA
IC-2	BA313	"	TOYO DENGU
D1	1S2790	Variable Capacitance Diode	HITACHI
D2,5,6,7	1N34A	Germanium Diode	"
D3,4	1N60P	"	"
D8	10D1	Silicon Diode	J.I.R.C.

Resistors

Ref. No.	Parts No.	Parts Name	Description
R5	QRD143K-101	Carbon	100Ω ¼W
R6	QRD141K-474	"	470kΩ "
R7	" -224	"	220kΩ "
R9	" -472	"	4.7kΩ "
R10	QRD143K-121	"	120Ω "
R11	QRD141K-151	"	150Ω "
R12	QRD143K-564	"	560kΩ "
R15	QRD141K-101	"	100Ω "
R16	QRD143K-474	"	470kΩ "
R17,35,83	" -561	"	560Ω "
R19	QRD141K-470	"	47Ω "
R24	QRD143K-181	"	180Ω "
R25,26	" -102	"	1kΩ "
R29	03126-15	C.R. Block	includes C61,62
R34	QRD143K-224	Carbon	220kΩ ¼W
R36	QRD141K-272	"	2.7kΩ "
R37	" -102	"	1kΩ "
R40	QRD143K-683	"	68kΩ "
R41,63	" -824	"	820kΩ "
R42,75	" -473	"	47kΩ "
R44	" -823	"	82kΩ "
R48	QRD141K-123	"	12kΩ "
R50	QRD143K-103	"	10kΩ "
R51	" -105	"	1MΩ "
R56	" -680	"	68Ω "
R60,61	QVF1A2A-014	Variable	10kΩ A-Curve
R64	QRD143K-273	Carbon	27kΩ ¼W
R67	QRC121K-220	Composition	22Ω ½W
R70	QRW123K-R47	Wire Wound	0.47Ω "
R76	QRD143K-100	Carbon	10Ω ¼W
R77	" -154	"	150kΩ "
R79	QRD141K-270	"	27Ω "
R81	QRD143K-152	"	1.5kΩ "
R82	" -563	"	56kΩ "
R84	QRD141K-100	"	10Ω "
R491	QRD143K-122	"	1.2kΩ "
R691	" -681	"	680Ω "
R731	" -820	"	82Ω "

Note: Ohter resistors are printed resistors mounted on the conductor side of cicuit board.

Capacitors

Ref. No.	Parts No.	Parts Name	Description
C1~8	QAP1224-503	Variable	
C9,10	QAT2002-001M	Trimmer	
C11,12,13	V03121-002	Band Pass Filter	includes L1,2,3
C14,20	QCF11EZ-103	Ceramic	0.01μF 25V
C15	QCS11HK-180	〃	10pF 50V
C16	QCS11HJ-4R0	〃	4pF 〃
C17	QCS11HK-331	〃	330pF 〃
C18	QCS11HJ-150	〃	15pF 〃
C19	〃 -100	〃	10pF 〃
C21	QCT05CH-180	〃	18pF 〃
C23	QCS11HJ-5R0	〃	5pF 〃
C24,43,53	QCF11EZ-473	〃	0.047μF 25V
C25,56,57	〃 -102	〃	1000pF 〃
C26,50,70	QEW41HA-105	Electrolytic	1μF 50V
C27	QCS11HK-151	Ceramic	150pF 〃
C28	〃 -5R0	〃	5pF 〃
C29	〃 -270	〃	27pF 〃
C30	QFM41HM-682	Mylar	6800pF 〃
C31	〃 -472	〃	4700pF 〃
C33	QCS11HK-560	Ceramic	56pF 〃
C34,96,97	QFM41HM-153	Mylar	0.015μF 〃
C35	QCS11HJ-301	Ceramic	300pF 〃
C36	QCS11HK-100	〃	10pF 〃
C37,91,103	QCY41HK-332	〃	3300pF 〃
C38,49	QCF11EZ-223	〃	0.022μF 25V
C39	QCT05CH-131	〃	130pF 50V
C40	QCS11HK-220	〃	22pF 〃
C41	〃 -330	〃	33pF 〃
C42	QCY41HK-472	〃	4700pF 〃
C45,64,92,93	QCS11HK-471	〃	470pF 〃
C46	〃 -3R0	〃	3pF 〃
C48	QCY41HK-103	〃	0.01μF 〃
C51,58,63,99	QFM41HM-223	Mylar	0.022μF 〃
C52,77	QEW41HA-335	Electrolytic	3.3μF 〃
C59	QCY41HK-682	Ceramic	6800pF 〃
C61,62	03126-15	C.R. Block	includes R29
C65,66,79	QEW41HA-474	Electrolytic	0.47μF 50V
C67	QEW41EM-335	Non-polarized Electrolytic	3.3μF 25V
C68	QEW41AA-227D09	Electrolytic	220μF 10V
C71,81	QCY41HK-222	Ceramic	2200pF 50V
C72	QEW21HA-474	Electrolytic	0.47μF 〃
C73	QEW41CA-106	〃	10μF 16V
C74,75	QCS11HK-101	Ceramic	100pF 50V
C76,80	QEW41AA-476	Electrolytic	47μF 10V
C78	QFM41HK-103	Mylar	0.01μF 50V
C82	QEW41AA-107	Electrolytic	100μF 10V
C83,104,109	〃 -107	〃	100μF 〃
C84,105	〃 -477D11	〃	470μF 〃
C85,86,90	QEW41HA-105	〃	1μF 50V
C87	QEW21HA-335	〃	3.3μF 〃
C88	QEW21HA-105	〃	1μF 〃
C89	QFM41HM-473	Mylar	0.047μF 〃
C94,95,98	QEW41AA-108	Electrolytic	1000μF 10V
C100,101	QFM41HK-332	Mylar	3300pF 50V
C102	〃 -333	〃	0.033μF 〃
C107	QCS11HK-560	Ceramic	56pF 〃
C108	〃 -471	〃	470pF 〃
C110	〃 -561	〃	560pF 〃

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Others

Ref. No.	Parts No.	Parts Name	Description
L1,2,3	V03121-002	Band Pass Filter	FM Antenna
L4	V03105-6	Coil	FM RF
L5	03226-1L	Inductor	FM IF
L6	V03080-015	Coil	FM Osc.
L9	VQM1T03-201	"	MW Osc.
L10	V03083-013	"	LW Osc.
L11	VQT7F12-101	I.F.T.	FM
L12	VQT7F11-201	"	"
L13	VQT7A10-101	"	AM
L14	VQT7A11-101	"	"
L15	VQT7F15-501	"	FM
L16	VQT7F16-601	"	"
L17	VQT7A11-301	"	AM
L19	V03083-017	Coil	Bias Osc.
L20	03226-17	Inductor	
L21	T41572-001	"	
CF-1	V03059-3	Ceramic Filter	
SA1~6	QSS6201-201	Slide Switch	Function
SB1~8	QSS8401-001	"	PLAY-RECORD
J1~4	V03104-048	Jack Board Ass'y	
T1	Q03372-5	Input Transformer	
T2	03070-17	Output Transformer	
TAB	V43895-1	Tab	
T.P.	V04041-1	Test Point	
CLAMP	V44691-001	Wire Clamp	
	V44868-001	Radiation	Heat-sink for X6,7

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